

Grease-II Workshop Faceted Interfaces for GIR

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Challenges GIR Interface Design

GREASE-I

- Research interfaces to:
 - GIR query specification and refinement
 - Purely text-based
 - Form-based
 - Interactive Map-based
 - GIR results presentation
 - Text-based
 - Map-based

GIR Interface Design - GREASE-I

- GIR query specification



Pesquisa Local Pesquisa na Web Mapa

Exemplo: restaurantes em Lisboa

versão **alpha**
Geotumba! O primeiro motor de busca geográfico de Portugal

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Pesquisa Local Pesquisa na Web Mapa

Exemplo: restaurantes

Exemplo: Lisboa, 1000-001

restaurantes em lisboa

em

tumba!

versão **alpha**
Geotumba! O primeiro motor de busca geográfico de Portugal

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Pesquisa Local Pesquisa na Web Mapa

Exemplo: restaurantes

TUMBA! MAPS



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GIR Interface Design - GREASE-I

- Browse search results

Âmbito da pesquisa: *Concelho: Lisboa.*
Termos pesquisados: [restaurantes](#)
Resultados: Documentos 1 a 10 de 72.171.
Dica de Utilização: Clique sobre os termos para ouvir a sua p

[Guia de Restaurantes - Redunice](#) (nova janela)

Local: [Concelho: Lisboa](#)

Guia de **Restaurantes** - Redunice inscreva aqui o seu restau
Guia de **Restaurantes** guia de **restaurantes** - redunice
<http://www.redunice.pt/guia/> | [links entrada](#) | [links saída](#)

[Guia de Restaurantes - Redunice](#) (nova jane

Local: [Concelho: Lisboa](#)

Guia de **Restaurantes** - Redunice Home pedido de a
Marginal, Caxias 2780 Oeiras Tel: 21 441 05 30 - Fa:
<http://www.redunice.pt/guia/index.php?action=31>
[em www.redunice.pt](#)

[RESTAUNET - O Portal dos Restaurantes](#) (nova jan

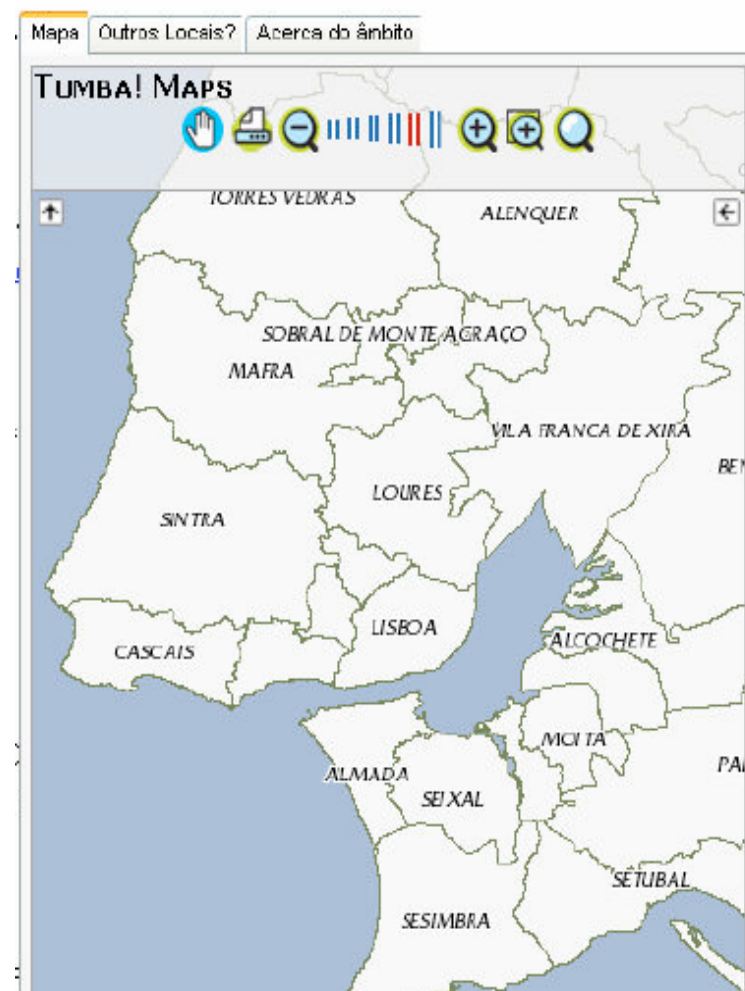
Local: [Concelho: Lisboa](#)

RESTAUNET - O Portal dos **Restaurantes** Login: Password: 2:
Canais Temáticos :: Românticos :: Tradicionais :: Mariscada
<http://www.restanet.pt/> | [links entrada](#) | [links saída](#) | [cô](#)

[RESTAUNET - O Portal dos Restaurantes](#) (n

Local: [Concelho: Lisboa](#)

RESTAUNET - O Portal dos **Restaurantes** > Login: Pas
Recuperar Password Canais Temáticos :: Românticos
<http://www.restanet.pt/PASSAT/index.asp> | [links](#)



GIR Interface Design - GREASE-I

- Related Projects:



Search for

In

Town or City name Region name Country name

Google Maps

What e.g., "pizza" Where e.g., "poughkeepsie"

[Search the map](#) [Find businesses](#) [Get directions](#)

[Search Results](#) [My Maps](#)

[Print](#) [Send](#) [Link to this page](#)

Welcome to Google Maps
You can drag the map with your mouse, and double-click to zoom. [Take a tour >](#)

Search the map, e.g.
[kansas city](#)
[10 market st, san francisco](#)

Map controls: Street View, Traffic, Map, Satellite, Terrain

YAHOO! LOCAL [Sign In](#) [New User? Sign Up](#)

[City Guide](#) [My Local](#) [Directory](#)

GIR Interface Design

GREASE-II Challenges

- Research interfaces to:
 - Specify GIR queries and reformulation
 - Browse search results
- Explore new interface designs to navigate in large collection of data based on:
 - **Browse-oriented search interfaces**

GIR Interface Design

GREASE-II Approaches

- Browse-oriented search interfaces approaches to navigate in a collection of resources:
 - Clustering
 - Organizing collection items in dynamic generated clusters
 - **Faceted**
 - Organizing collection items according to predetermined categories

The Idea of Facets

- Facets are a way of labeling data
 - A kind of metadata
 - Can be thought of as properties of items
 - Multiple facet labels are assigned to items
- Create non-overlapping categories (facets)
 - Each facet has labels (sometimes arranged in a hierarchy)
- Assign labels from the facets to every item
- Now there are multiple ways to get to each item

Open-Source frameworks

- Flamenco Search Interface Project <http://flamenco.berkeley.edu>

Flamenco Fine Arts Search
Images from the Collections of the Fine Arts Museums of San Francisco,
Legion of Honor and de Young Museums, <http://www.thinket.org>

Save Search History and Settings

search

☒ all items ☐ in current results

Refine your search within these categories:

MEDIA: [all](#) > Ceramic ([group results](#))

[Earthenware](#) (10) [Porcelain](#) (41)
[Painted Ceramic](#) (4) [Terra Cotta](#) (3)

LOCATION: ([group results](#))

[Asia](#) (18) [North America](#) (3)
[Central America](#) (2) [South America](#) (1)
[Europe](#) (51)

OBJECTS: [all](#) > Clothing ([group results](#))

[accessory](#) (2) [pants](#) (1)
[headgear](#) (17) [parts](#) (1)
[jewelry](#) (1) [protective](#) (7)
[outerwear](#) (50) [suits, dresses, tunics](#) (7)

BUILT PLACES: ([group results](#))

[Building](#) (3) [Dwelling](#) (1)
[Built Open Space](#) (1) [Part of Building](#) (1)

ANIMALS AND PLANTS: ([group results](#))

[Birds](#) (20) [Mammals, Hoofed](#) (12)
[Fish and Molluscs](#) (2) [Mammals, Other](#) (23)
[Flowers](#) (4) [Parts of Plants](#) (7)
[Insects](#) (4) [Trees](#) (7)

HEAVEN AND EARTH: ([group results](#))

[Rivers, Lakes, Seas](#) (18) [Storms, Clouds, Floods](#) (6)

SHAPES AND COLORS: [all](#) > Color


[black](#) (10) [pink](#) (4)
[blue](#) (36) [purple](#) (5)
[brown](#) (6) [red](#) (23)
[gold](#) (4) [white](#) (12)
[green](#) (3) [more...](#)
[orange](#) (3)


These terms define your current search. Click the to remove a term.

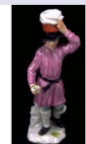
MEDIA: Ceramic
OBJECTS: Clothing
SHAPES AND COLORS: Color


75 items, grouped by SHAPES AND COLORS ([view ungrouped items](#))


black (10)



[Bowl](#)
circa 1772 - 1775


[Bowl](#)
circa 1768





[Man carrying vesse...](#)
18th century


[Standing woman](#)
circa 1770


[Standing man](#)
circa 1770


[Polychrome cylinde...](#)
7th - 9th century

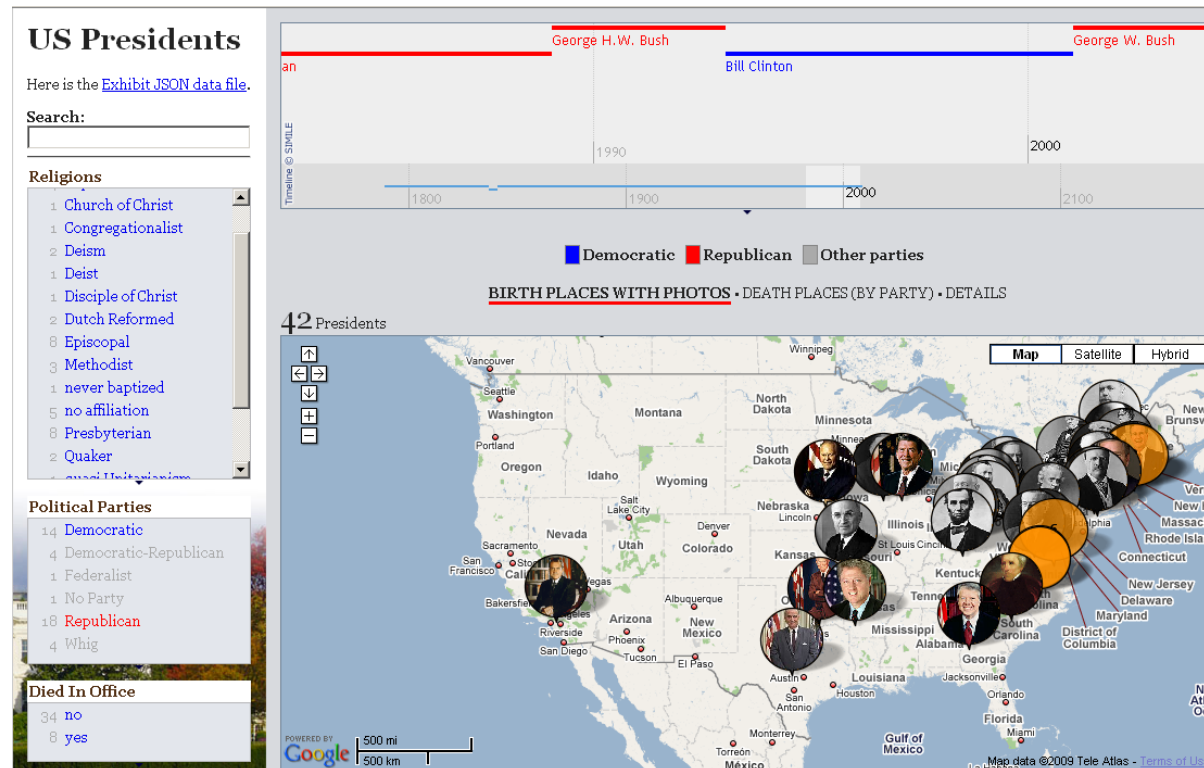
blue (36)

Open-Source frameworks

- The Smile Project - Semantic Interoperability of Metadata and Information in unLike Environments

<http://simile.mit.edu/exhibit/>



GIR Interface Design

GREASE-II Task Results

- Explore the use of browse-oriented search interface (based on faceted categorization) to navigate in a collection of geographic and thematic indexed resources
 - Develop an integrated tool to explore both thematic and geographic facets of web documents
 - Explore and develop geographic extensions to open-source frameworks